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# Estimating and Comparing Efficiency Gains from Integration of Family Planning and HIV Testing and Counselling in Tanzania

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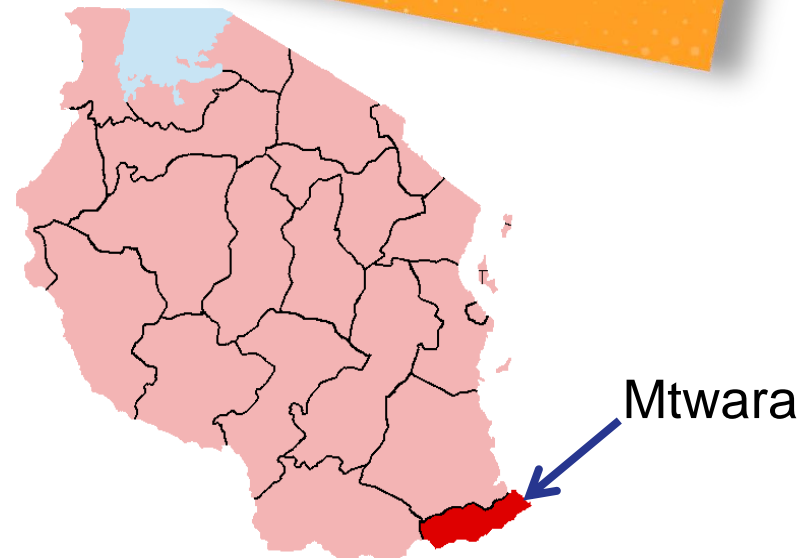
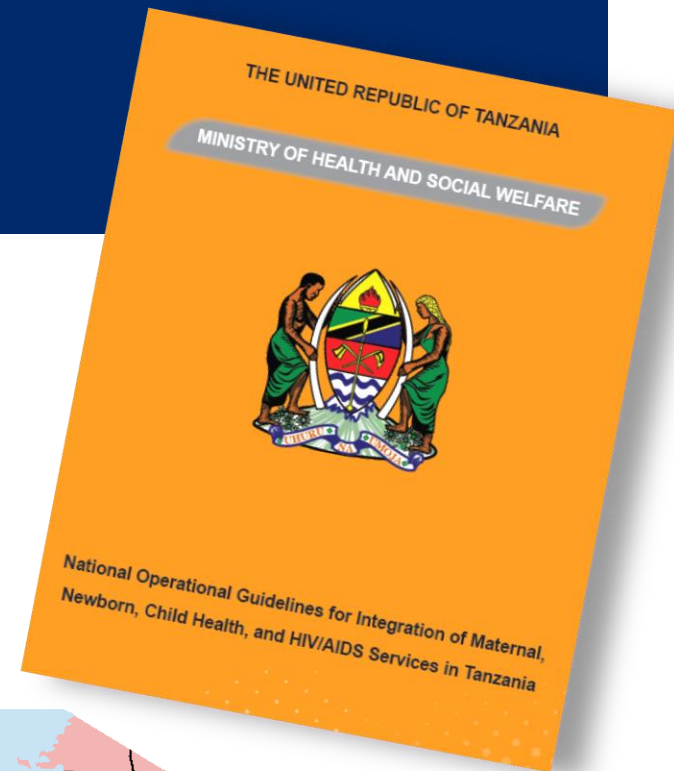
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# Tanzanian context

- ▶▶ High fertility rate of 5.2
- ▶▶ Adult HIV prevalence: 4.7%
- ▶▶ Health staff vacancy level: 56%
  
- ▶▶ RESPOND Tanzania Project (2012-2017): Integration of family planning (FP) and HIV services in 12 facilities



# Study objectives and design

1. Propose **indicators** to measure efficiency of integrated programs
2. Assess and compare **relative efficiency** of integrating FP-HIV at different clinics (baseline and endline)
3. Provide information on **resources needed** for FP-HIV integration

Package Number	Clinics targeted by integration strengthening
Package 1	Family Planning (FP), HIV/AIDS Care and Treatment Clinic (CTC)
Package 2	FP, CTC, Antenatal Care (ANC), Postnatal Care/Labor and Delivery (PNC/L&D)
Package 3	FP, CTC, ANC, PNC/L&D, Child health/immunization
Package 4	FP, CTC, outpatient department (OPD)

# Measuring integration

## COLLECT

Number of  
integrated visits at  
X clinic



Total number of  
visits to X clinic

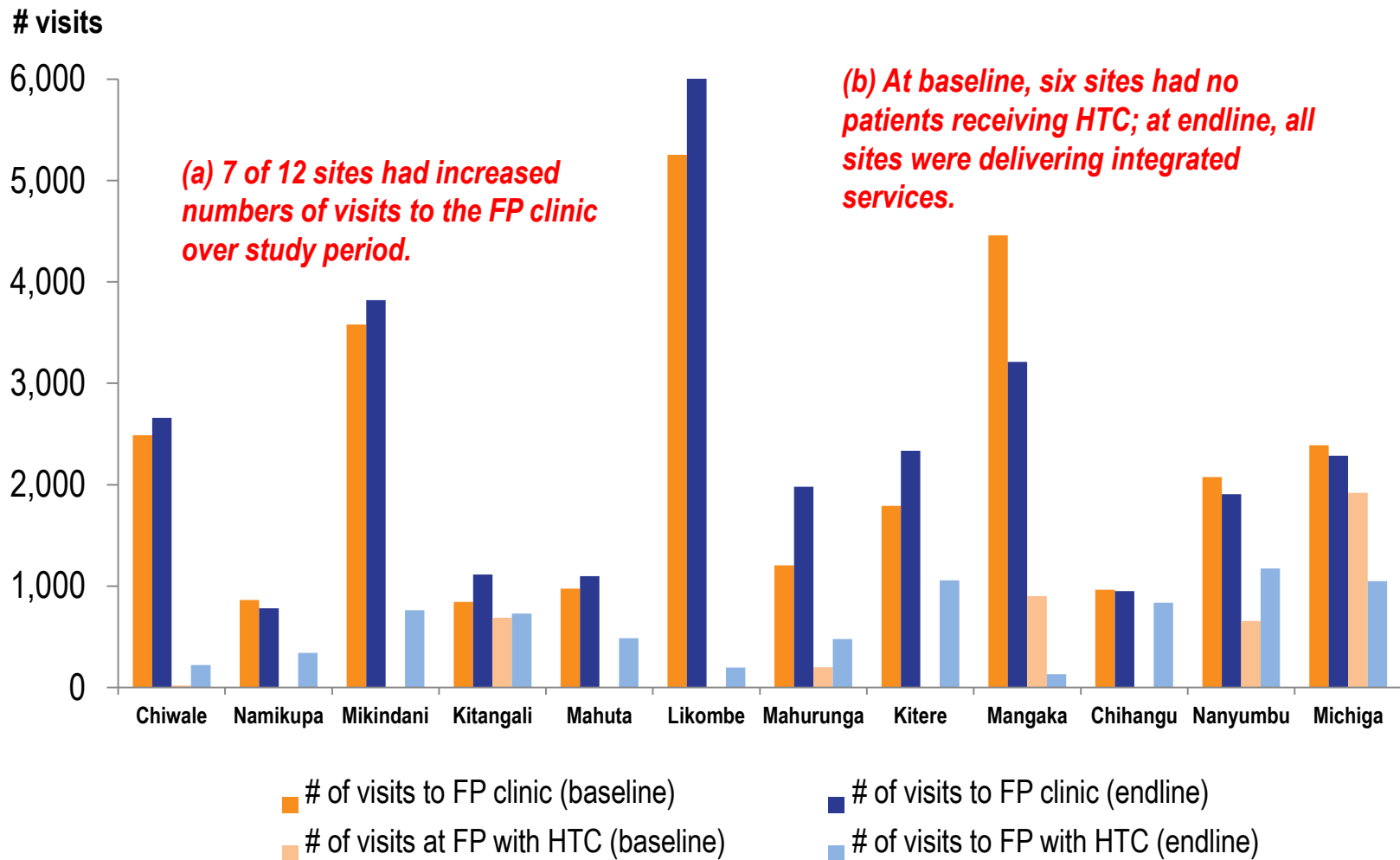
## CALCULATE

% integration  
at X clinic

## COMPARE

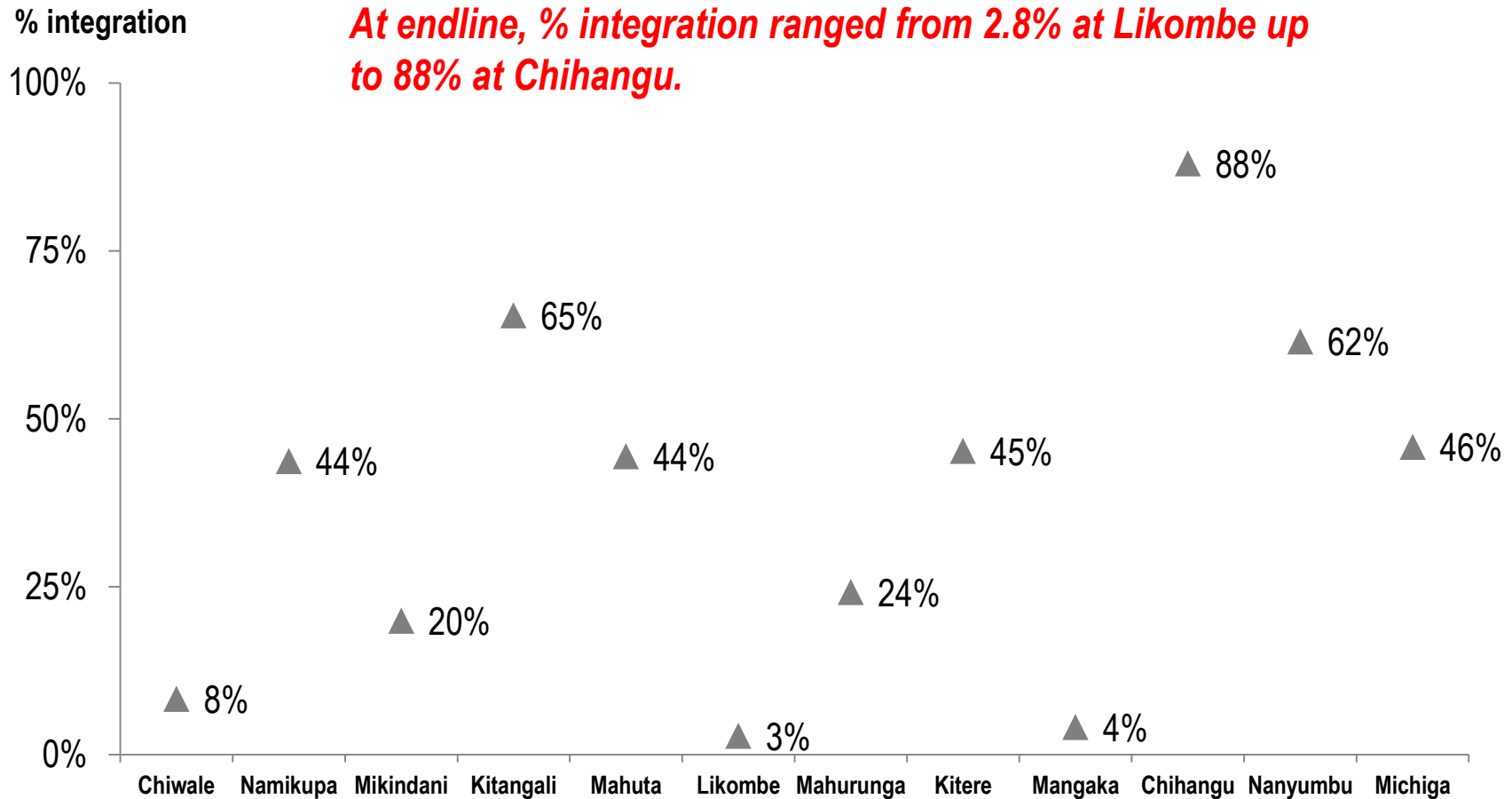
- Baseline and endline
- Across clinics
- Across facilities and packages

# Post-integration, all facilities provided HIV Testing/Counselling (HTC) in the FP clinic...



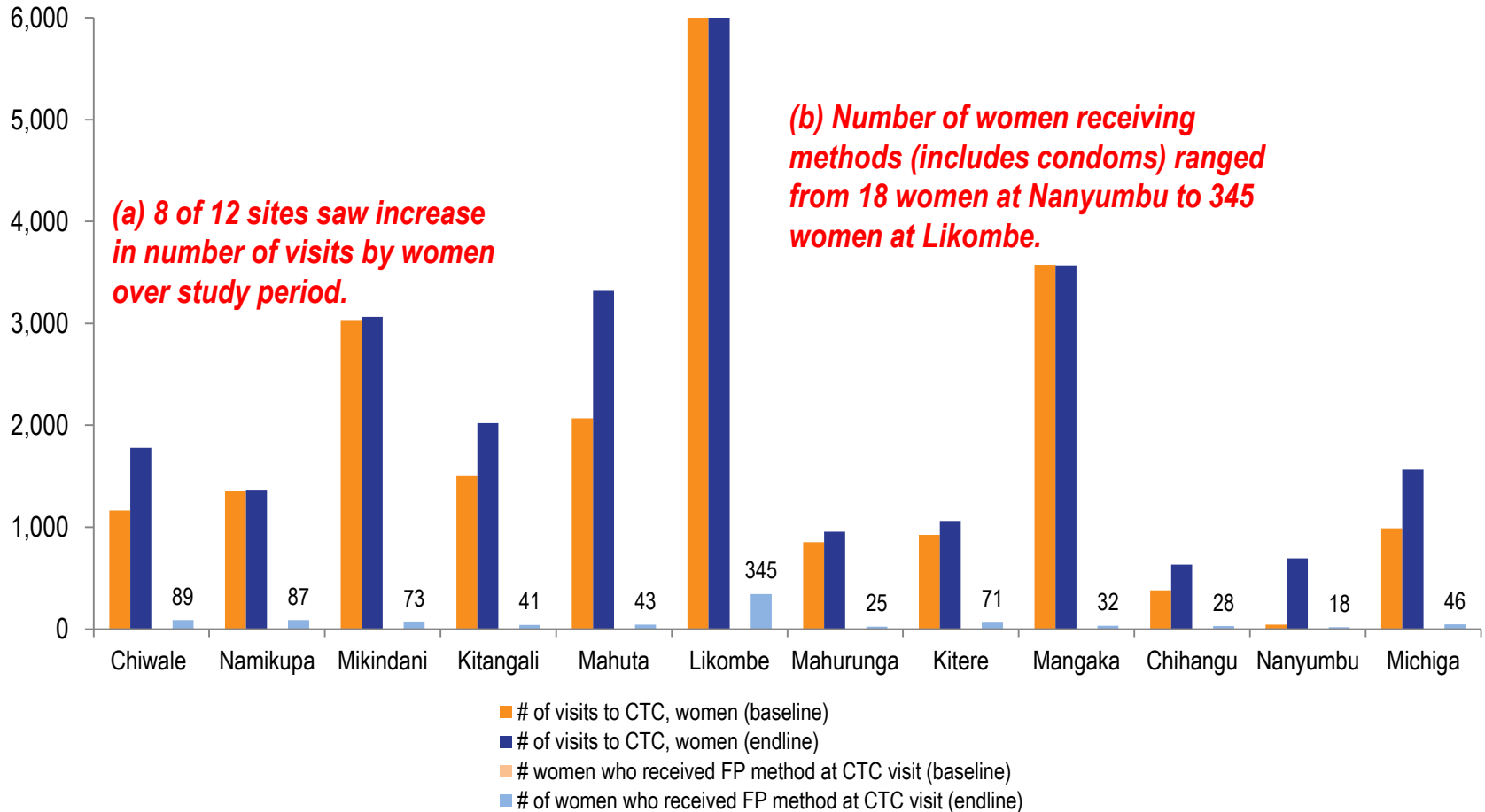
# ...but the extent of FP-HTC integration at endline varied greatly across facilities.

*At endline, % integration ranged from 2.8% at Likombe up to 88% at Chihangu.*



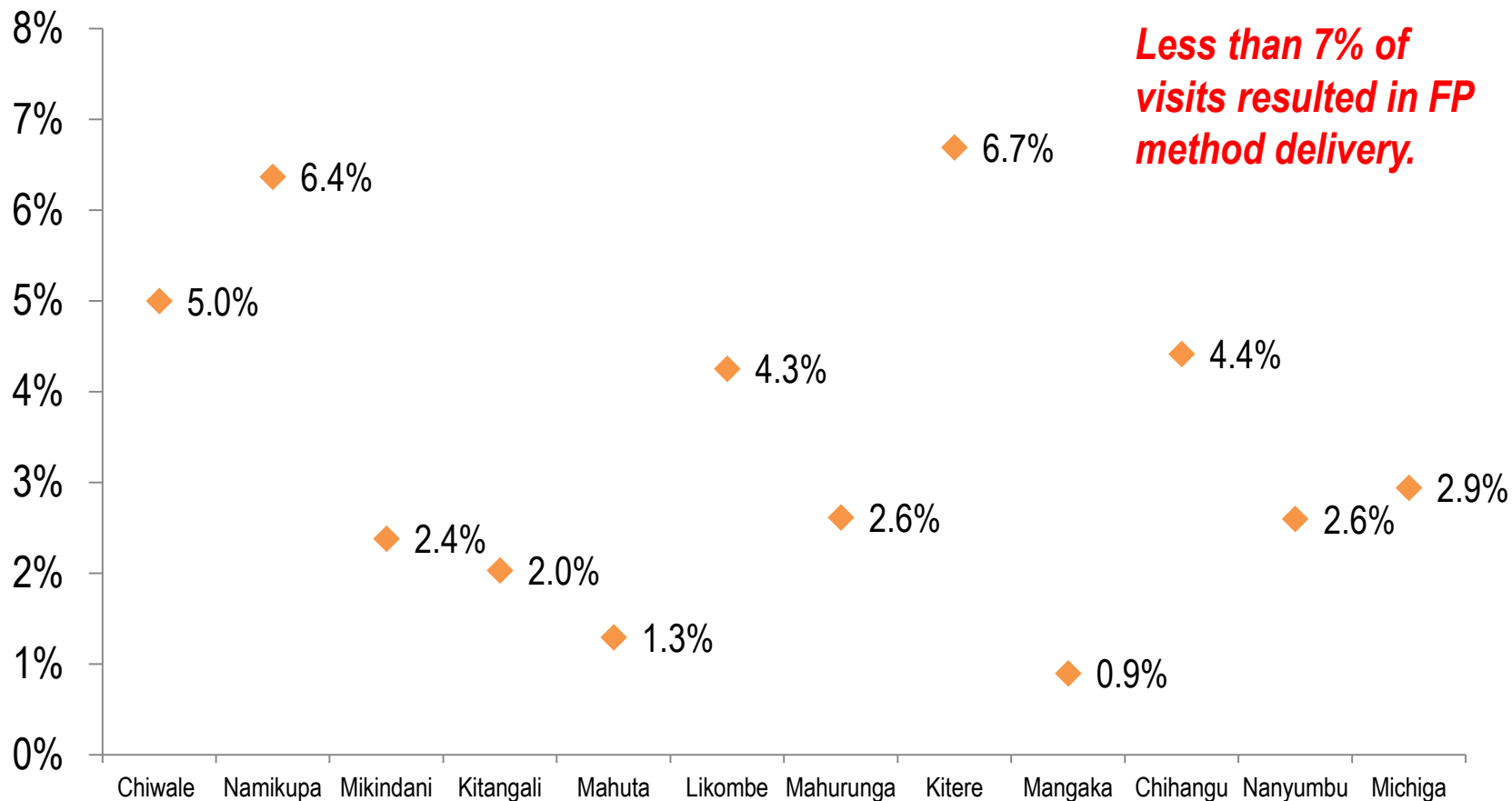
# Half of facilities integrating FP method provision in CTC at endline...

# visits by women



# Integration of FP into the Care and Treatment Clinic (CTC)

% integration



**Less than 7% of visits resulted in FP method delivery.**

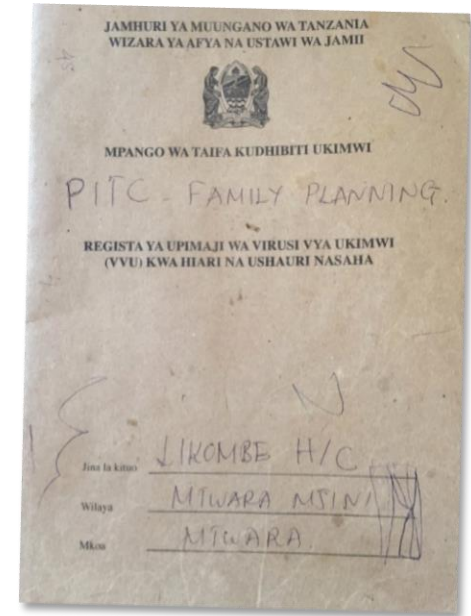


# Assessing efficiency: Cost per 'event'

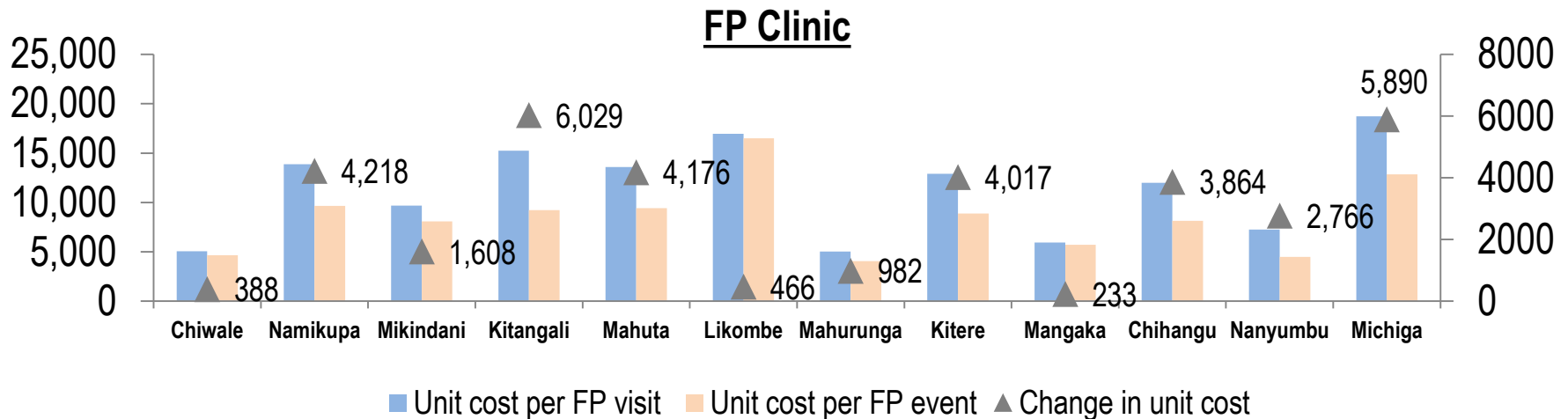
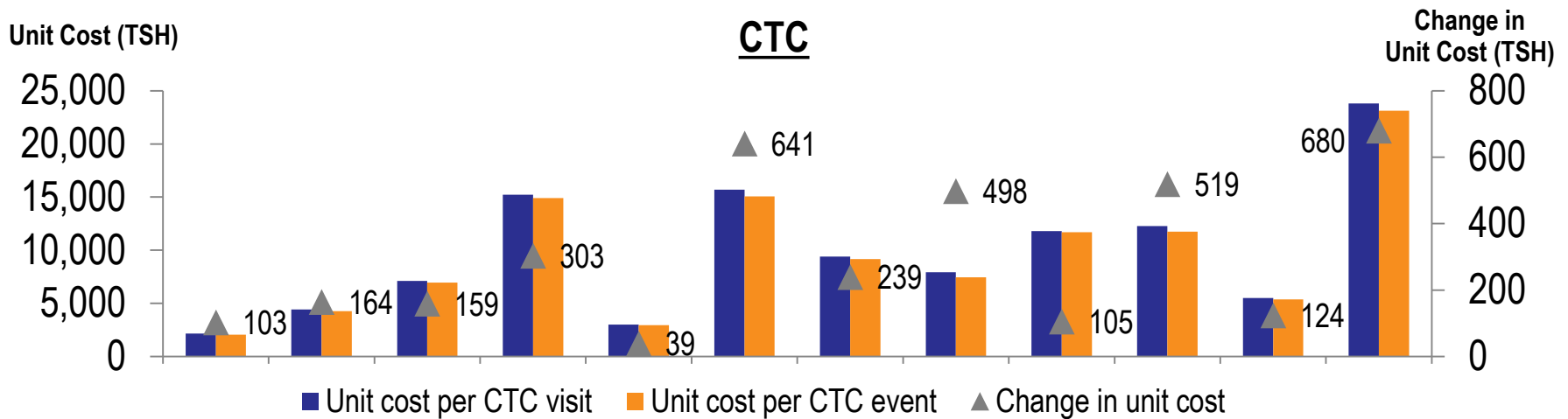
- ▶▶ At baseline/endline: Cost per visit
  - ❖ e.g., in FP clinic:  $\frac{\text{Total FP clinic cost}}{\text{Total FP visits}}$

- ▶▶ At endline: Cost per integrated *event*
  - ❖ e.g., in an integrated FP clinic:

$$\frac{\text{Total FP clinic cost}}{\text{FP visits} + \text{HTC episodes}} = \text{Total \# of FP events}$$

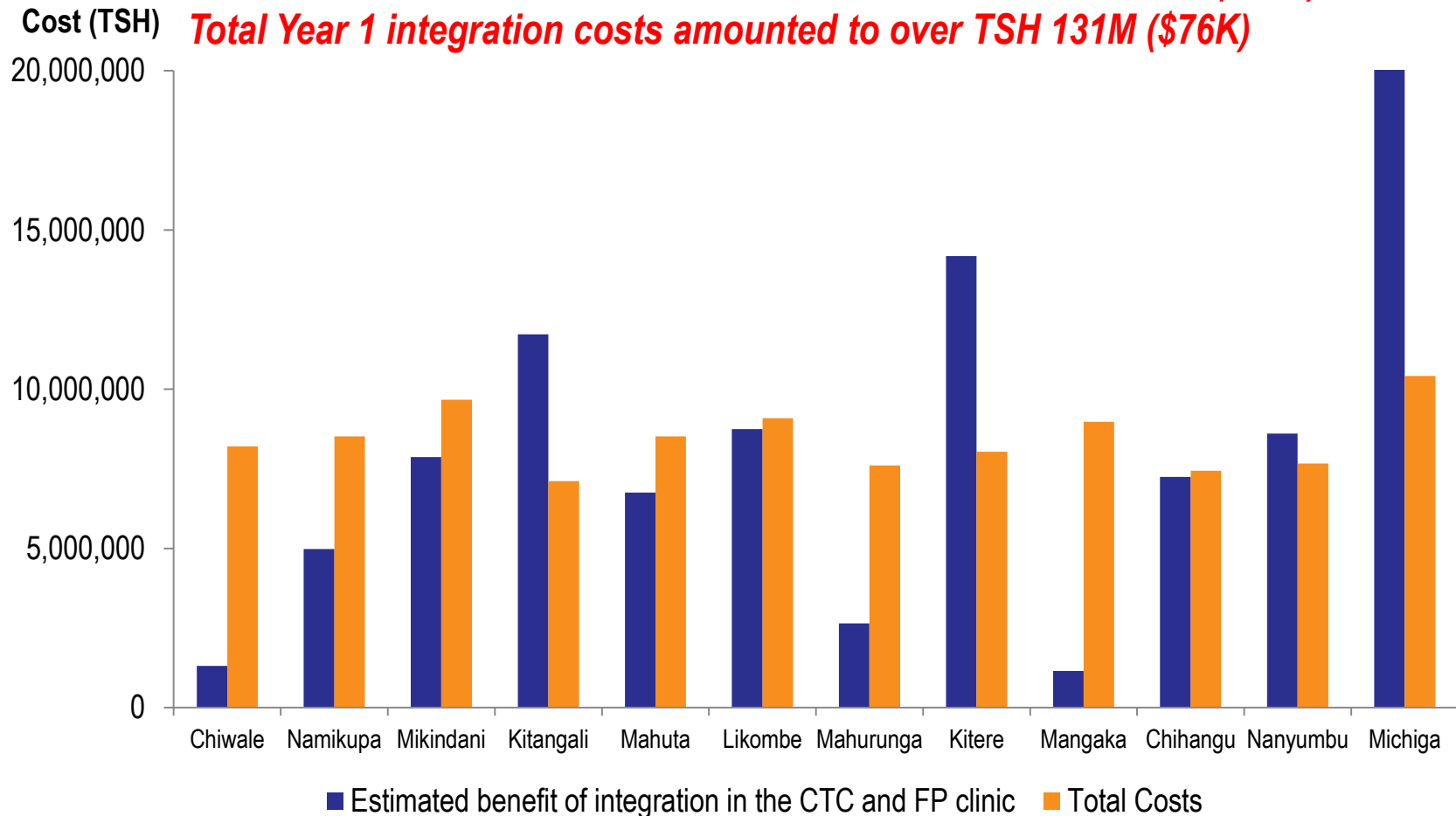


# Cost per visit vs. cost per event at endline in the FP and CTC

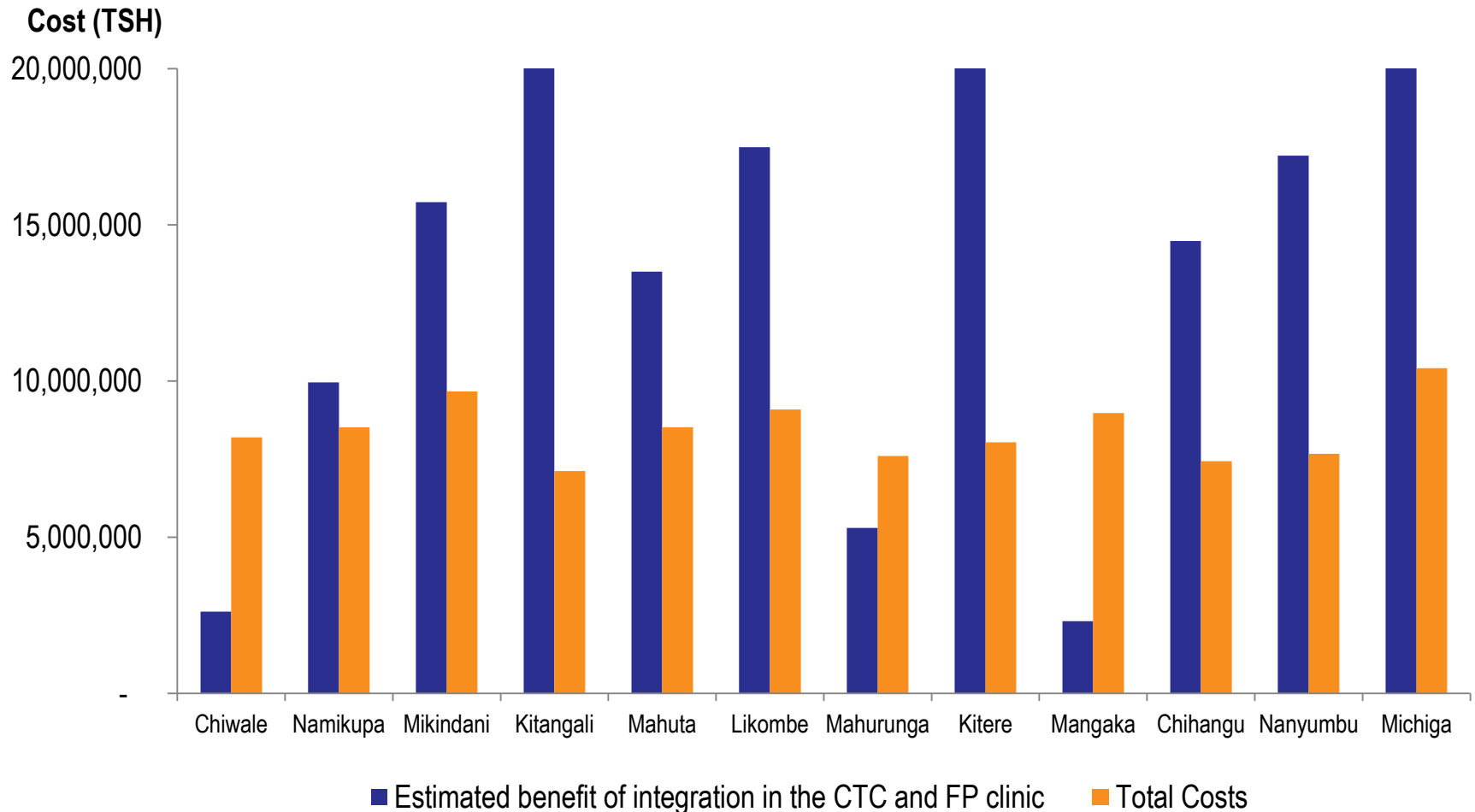


# One year post-integration, costs outweigh 'benefit' seen in FP/CTC at most facilities...

**Summed 'benefit' across 12 facilities valued at about TSH 96M (\$43K) after first year.  
Total Year 1 integration costs amounted to over TSH 131M (\$76K)**

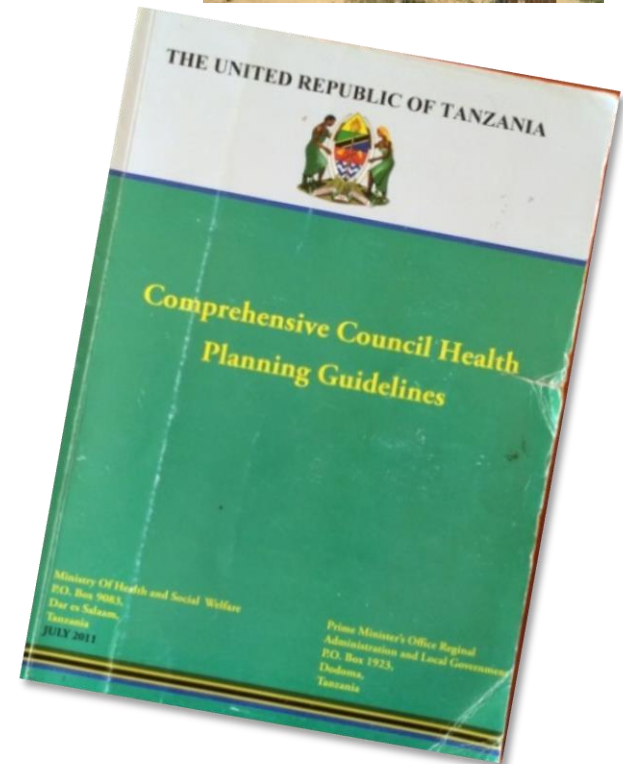


...after 2 years, estimated 'benefit' of integration in FP/CTC exceeds total costs in most facilities.



# So what?

- ▶▶ Integration of FP-HIV services in FP and CTC appears to be “worth it”.
  - ❖ ‘Benefit’ also seen in other clinics but more inconsistent.
- ▶▶ Next step: Incorporating integration into district planning and budgeting processes



# Acknowledgements

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- ▶▶ The team would also like to thank:
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**Thank you**

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